

IAP20 Rec'd PCT/PTO 11 AUG 2006

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Yutaka MURAKAMI, et al.

Application No.: New PCT National Stage Application

Filed: August 11, 2006

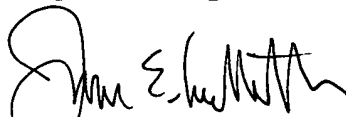
For: TRANSMITTER APPARATUS, RECEIVER APPARATUS,  
AND WIRELESS COMMUNICATION METHODINFORMATION DISCLOSURE STATEMENTAssistant Commissioner of Patents  
Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449. Copies of the art cited in the International Search Report (ISR), which issued by the JPO, are made available to the U.S. examiner in the national stage application, pursuant to MPEP 1893.03(g), and therefore copies of such art are not submitted herewith. The art cited in the ISR is listed on the attached PTO-1449 for an indication of consideration by the examiner. Copies of any other references listed on the PTO-1449, besides those cited in the ISR, are submitted herewith. The V. TAROKH, et al. document is discussed in the present application at page 1, line 12 et seq. The V. TAROKH, et al. and H. JAFARKHANI documents are discussed at page 31, line 1 et seq. WO '732 corresponds to JP '376.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,



James E. Ledbetter  
Registration No. 28,732

Date: August 11, 2006

JEL/spp

ATTORNEY DOCKET NO. L9289.06177

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FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

L9289.06177

SERIAL NO.

107589080  
New PCT Nat'l Stage  
Application

APPLICANT

Yutaka MURAKAMI, et al.

FILING DATE

August 11, 2006

GROUP

Unassigned

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
2004 5 0 2 3 7 6	01/2004	JP				
2002 0 0 1 7 3 2	01/2002	WO				
2004 0 0 0 7 7 2 9	01/2004	JP				
2001 1 4 8 6 7 8	05/2001	JP				
0 2 1 7 9 1 4 5	07/1990	JP				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

PCT International Search Report dated May 24, 2005.

V. TAROKH, et al.; "Space-Time Block Codes from Orthogonal Designs," IEEE Transactions on information theory, vol. 45, no. 5, July 1999, pp. 1456-1467.

H. JAFARKHANI; "A Quasi-Orthogonal Space-Time Block Code," IEEE Transactions on communications, vol. 49, no. 1, January 2001, pp. 1-4.

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.